

## 40723 Fell non-pine species trees

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>People with this skill standard will be able to fell non-pine species trees. It covers species-specific techniques, hazard management, equipment maintenance, and team coordination to ensure safe, efficient, and sustainable felling.</p> <p>This skill standard aligns with the New Zealand Certificate in Forest Harvesting Operations (Level 4) [Ref: 4175] with strands in Cable Extraction, Ground Based Extraction, Mobile Cable Yarder, Head Breaker Out, Loading, Log Making, Mechanised Felling, Mechanised Processing, Spotting, Swing Yarder Extraction, and Tree Felling.</p>

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Identify characteristics of a selected number of non-pine species.	a. Describe the structural and physical properties of four different non-pine species, including density, grain patterns, and growth habits found in the region.
	b. Explain how these characteristics influence felling techniques, equipment being used and its wear.
2. Conduct species-specific hazard assessments for tree felling operations.	a. Conduct hazard and risk assessments tailored to non-pine species challenges.
	b. Identify risks such as limb breakage, root instability, and unpredictable fall paths.
3. Plan felling operations for non-pine species.	a. Develop comprehensive felling plans, including safety and environmental strategies.
	b. Address terrain, species characteristics, and operational constraints.
4. Adapt felling techniques for non-pine species.	a. Execute directional scarves and back cuts tailored to species characteristics.
	b. Utilise wedges and tools to manage fall direction and prevent splitting.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
5. Conduct chainsaw maintenance for use on non-pine species with high density.	a. Conduct chainsaw maintenance to optimise performance for cutting high density non-pine species.
6. Communicate and coordinate with others involved in the felling of non-pine species.	a. Demonstrate effective use of communication tools to ensure safe operations.
	b. Demonstrate rangatiratanga during high-risk felling tasks of non-pine species.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

#### Assessment specifications:

Akōnga/learners must be assessed against this standard in a work environment, using naturally occurring evidence.

All activities and evidence must meet the requirements of worksite procedures, accepted industry practice (Best Practice Guides, BPG) and any subsequent amendments to legislation and Approved Code of Practice (ACOP).

All activities relevant to this standard should reflect ngā kaupapa (the principles) o te Tiriti o Waitangi.

All activities should, as relevant to candidates and/or this standard, reflect the peoples of the Pacific and other cultures, and their world views.

#### Definitions:

*Accepted industry practice* refers to approved codes of practice and standardised procedures accepted by the wider tree felling industries as examples of best practice.

*Kotahitanga* denotes unity and collective action, promoting togetherness and solidarity within the community.

*Kaitiakitanga* signifies guardianship and stewardship, highlighting the responsibility to protect and preserve the natural environment for future generations.

*Non-pine species* refers to tree species that do not belong to the *Pinus* genus. This category encompasses a wide range of both coniferous and broadleaf (hardwood) trees.

*Rangatiratanga* signifies self-determination and leadership, emphasising autonomy and the ability to make decisions for oneself or one's community.

*Worksite procedures* refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

### Ngā momo whiwhinga | Grades available

Achieved.

**Ihirangi waitohu | Indicative content****Species Characteristics:**

- Differentiation between species and impact on tools – chainsaw chain, heavy machinery for assistance and techniques.

**Non-pine species:**

- Macrocarpa, Eucalyptus, Red Beach and native trees.

**Hazard Management:**

- Identification and mitigation of species-specific risks.

**Felling Techniques:**

- Precision cuts and advanced wedge management.

**Chainsaw Maintenance:**

- Adjustments for dense woods and consistent performance: sharpening, chain tensioning, and lubrication.

**Operational Planning:**

- Incorporation of Kaitiakitanga environmental protection and safety measures.

**Team Communication:**

- Kotahitanga effective communication strategies for complex tasks.

**Rauemi | Resources**

Legislation relevant to this skill standard includes but is not limited to:

- New Zealand Forest Owners Association, Forest Practice Guides (2019), and any subsequent amendments, available from [www.nzfoa.org.nz](http://www.nzfoa.org.nz).
- Safetree wellbeing and safety resources and initiatives for the plantation forestry industry, available from [www.safetree.nz/](http://www.safetree.nz/).
- Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).
- Health and Safety at Work (HSW) Act 2015.
- Heritage New Zealand Pouhere Taonga Act 2014.
- Resource Management Act 1991.
- Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018.

and any subsequent amendments or replacements.

**Pārongo Whakaū Kouna | Quality assurance information**

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Muka Tangata – People Food and Fibre Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Agriculture, Forestry and Fisheries > Forestry > Tree Felling
<b>Ko te tohutoro ki ngā Whakaritenga i te</b> <b>Whakamanatanga me te Whakaōritenga  </b> CMR	0052

<b>Hātepe   Process</b>	<b>Putanga  </b> Version	<b>Rā whakaputa  </b> Review Date	<b>Rā whakamutunga mō te</b> <b>aromatawai   Last date for</b> assessment
<b>Rēhitatanga   Registration</b>	1	29 May 2025	N/A
<b>Kōrero whakakapinga  </b> Replacement information	N/A		
<b>Rā arotake  </b> Planned review date	31 December 2030		

Please contact Muka Tangata – People Food and Fibre Workforce Development Council at [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) to suggest changes to the content of this skill standard.